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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	. ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/925,427	08/10/2001	Shinichi Yamagata -	P 281112 SO2-137339C/KQK	5385	
75	90 12/23/2002				
McDERMOTT, WILL & EMORY			EXAMINER		
600 13TH STRI WASHINGTON	EET, N.W. N, DC 20005-3096		JENKINS, DANIEL J		
			ART UNIT	PAPER NUMBER	
			1742	<u></u>	
			DATE MAILED: 12/23/2002	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	•		
Office Action Summers	09/925,427	YAMAGATA ET A	L.		
Office Action Summary	Examiner	Art Unit	- · · · -		
	Daniel J. Jenkins	1742	<del> </del>		
The MAILING DATE of this communication app Period for Reply	ears on the cover she	et with the correspondence ad	dress		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply of If NO period for reply is specified above, the maximum statutory period vortices to reply within the set or extended period for reply will, by statute, any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, n y within the statutory minimum will apply and will expire SIX (6 . cause the application to beco	nay a reply be timely filed  of thirty (30) days will be considered timel ) MONTHS from the mailing date of this c me ABANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 10 A	<u> August 2001</u> .				
2a) ☐ This action is FINAL. 2b) ☑ Th	is action is non-final.				
3) Since this application is in condition for alloward closed in accordance with the practice under	•	. •	ne merits is		
Disposition of Claims					
4)⊠ Claim(s) <u>35-49</u> is/are pending in the application	•				
4a) Of the above claim(s) is/are withdrav	wn from consideratior	1.			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>35-49</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o Application Papers	r election requiremen	t.			
9) The specification is objected to by the Examine	r				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S	S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>					
Attachment(s)	_				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ol>	5) Noti	rview Summary (PTO-413) Paper No ce of Informal Patent Application (PT er:			
0.00	<del></del>				

Application/Control Number: 09/925,427

Art Unit: 1742

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 35-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zedalis et al.

Zedalis et al. disclose a method of forming a composite material comprising:

providing an aluminum powder (col. 1, lines 61-63);

adding a silicon carbide powder to the aluminum powder to form a mixture (col.

3, lines 31-35);

compacting said mixture to form a compact (col. 4, lines 54-58); and

Application/Control Number: 09/925,427

Art Unit: 1742

sintering said compact to form an aluminum/silicon carbide composite material (col. 4, lines 58-64).

Zedalis et al. further disclose wherein the sintering takes place at temperature up to 600°C (col. 4, line 64).

However, Zeladis et al. is silent as to the sintering atmosphere.

It is common knowledge in the prior art to sinter aluminum composites in inert atmospheres, including nitrogen, low moisture, low oxygen atmospheres to prevent contamination of the sintered composite, and to use such an atmosphere in the invention of Zeladis et al. would be obvious to prevent such contamination.

4. Claim 40 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art does not teach or suggest the repressing step.

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 41-49 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Application/Control Number: 09/925,427

Art Unit: 1742

Claim 41, lines 12-13 contain "pre-formed substrate" which has no antecedent basis.

The Examiner suggests inserting --pre-formed-- before "substrate" in line 11.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is 703-306-4157. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 703-308-1146. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9593 for regular communications and 703-305-7719 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Daniel J. Jenkins Primary Examiner Art Unit 1742

dj December 1, 2002